



GIS Programmer

Job Description

Department: Information Systems
Position: Career Service
Grade: 516
Supervisory: No
Reports to: GIS Manager

Summary

Under the general supervision of the GIS Manager, leads GIS application development and other programming which supports GIS functions. Performs complex technical coordination and management of GIS projects with other departments, agencies, and officials.

Essential Functions

Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- Design, implement, manage, maintain, and document Geographical Information Systems (GIS) using ArcGIS, ArcGIS Enterprise Server, ESRI Enterprise Geodatabases, Oracle, and other software.
- Assist GIS Manager with generating quality standards and maintaining overall integrity of the databases and systems.
- Using PB, VBA, VB.NET, SQL, HTML, JavaScript, C#, Java, Swift, XAML, Python, and other programming languages, lead in the design, development and programming of GIS applications and tools to meet the needs of various county departments and agencies including the integration of GIS data with other county enterprise systems.
- Perform high-level technical review of geographic information, GIS and 3rd party software to determine accuracy and usability.
- Capture data in different formats using global positioning system equipment and other means.
- Document applications as they are written and modify existing documentation as needed.
- Provide technical assistance in implementing GIS projects and applications to county departments, other government agencies, and the public; train County employees in GIS procedures and software.
- Support operations of a multi-department GIS enterprise.
- Research and analyze new hardware and software products for County GIS use.
- Assist GIS Manager in establishing long-range direction for GIS in Utah County.
- Assist GIS Manager in the hiring and training of personnel within the GIS Division.

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Job Code: 2038
Job Title: GIS Programmer
FLSA: Exempt
Effective Date: 10/3/19
Public Safety: No

Worker's Compensation: Clerical
Background Level: I
Safety Sensitive: No
DOT: No
ML: Individual Contributor

- Respond to and resolve customer complaints and emergency problems relating to the GIS function.
- Assist in performing system administrator duties on assigned hardware and software that may include Windows Server and Window workstation operating systems.

Knowledge, Skills, and Abilities

- Knowledge of ArcGIS Desktop, ArcGIS Pro, ArcGIS Online other GIS working environments
- Knowledge of ArcGIS, ArcGIS Enterprise Server, ArcGIS Runtime SDK's, Python, C#, Java, JavaScript, Swift, IOS, Android, SQL, VB.net and related GIS products and languages
- Knowledge of, and proven skill in, relational database systems such as Oracle or SQL server in an enterprise GIS deployment
- Knowledge of computer operating systems including Windows Server, and Windows 7-10+
- Knowledge of computer programming and design techniques
- Knowledge and skill in maintaining software that may reside on personal computers, workstations, and servers
- Knowledge of civil engineering, cartography, cartographic principles, and surveying
- Skilled in utilizing geographic information systems
- Skilled in reading, writing, and presenting technical information to a wide variety of audiences
- Skilled in advanced math
- Ability to assess priorities of other departments
- Ability to maintain cooperative relationships with those contacted in the course of work activities

Supervisory Responsibility

This position has no direct supervisory responsibility but does serve as a coach and mentor for other positions in the department.

Work Environment

This job operates in a professional office environment but may be performed for sustained periods outdoors and occasionally in hot, cold, or inclement weather. Work may expose the incumbent to possible bodily injury when performing field work. This role routinely uses standard office equipment such as a laptop, desktop, smart phone, photocopiers, shredders, and filing cabinets. The noise level in the work environment is usually moderate.

Physical Demands

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job.

While performing the duties of this job, the employee is required to use manual dexterity to handle, feel, and operate objects, tools and controls, and reach with hands and arms. This employee is

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frequently required to sit for long periods of time, stand, talk, and hear. Specific vision abilities by this job include close vision and ability to adjust focus. Works for sustained periods of time maintaining concentration and attention to detail. The employee is required to type, file and lift supplies up to thirty (30) pounds. The employee regularly drives a motor vehicle.

Position Type/ Expected Hours of Work

Incumbent must work eighty (80) hours each pay period to maintain full-time status. There may be availability to work out a flex schedule ahead of time that works for both the County and the employee. Occasional evening and weekend work may be required as job duties demand.

Travel

Travel is primarily local during the business day, although some out-of-area and overnight travel may be expected, up to five (5) percent.

Required Education and Experience

1. Bachelor's degree in Geographic Information Systems (GIS), Computer Science, Geography, Planning, or a related field.
2. Four (4) years of computer programming work experience.
3. Equivalent combinations of education and experience which includes two (2) years of experience in computer programming may also be considered.

Preferred Education and Experience

1. Preference may be given for programming experience directly related to GIS.

Additional Eligibility Qualifications

1. Applicants must possess a valid driver's license and obtain a valid State of Utah driver's license within sixty (60) days of employment.
2. Selected applicants will be required to submit to a pre-employment drug screen and background check.

AAP/EEO Statement

It is the policy of Utah County Government to assure equal employment opportunity to its employees and applicants for employment without regard to race, color, religion, national origin, disability, age, sex, sexual orientation, genetic status or gender identity.

Other Duties

Please note this job description is not designed to cover or contain a comprehensive listing of activities, duties, or responsibilities that are required of the employee of this job. Duties, responsibilities, and activities may change at any time.

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Utah County Government is a drug-free workplace.

Below is to be completed after an offer has been extended and accepted.

Signatures

This job description has been approved by all levels of management:

Manager _____

Department Head _____

Director – Human Resources _____

Employee signature below constitutes employee's understanding of the requirements, essential functions and duties of the position

Employee_____ Date_____

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